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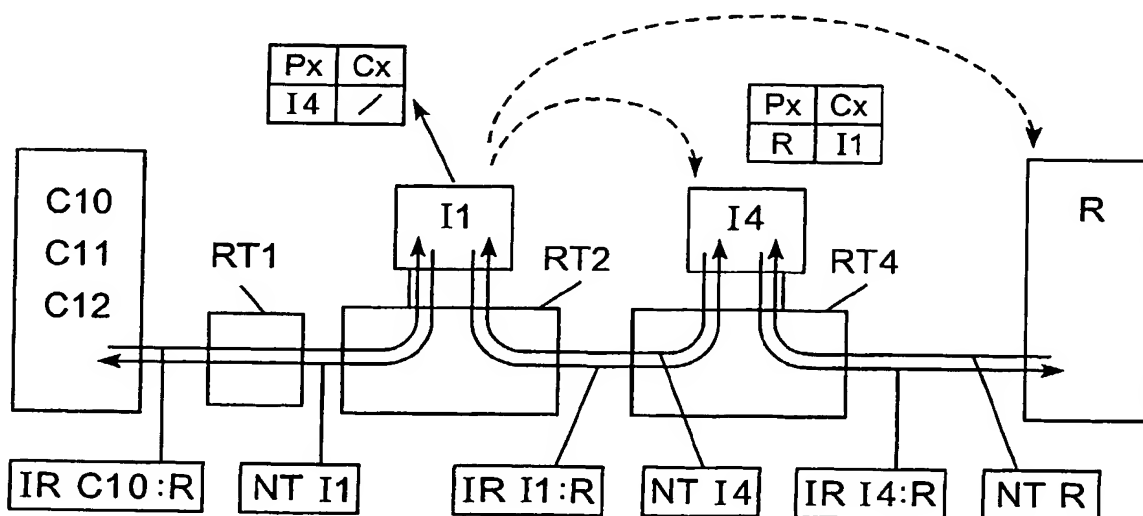
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(54) Title: INDEX SERVER SUPPORT TO FILE SHARING APPLICATIONS



(57) Abstract: An index server support for file sharing applications is disclosed. A way of retrieving an index server includes sending a request for investigating a hierarchical structure of index servers in a network to a known index server, intercepting the investigation request by the first index server that becomes aware of the investigation request, notifying an originator of the investigation request of the intercepting index server identity, dropping the intercepted request is dropped by the intercepting index server. The originator of the investigation request then registers the intercepting index server as addressee for future file querying requests.

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/133621 A1 (LEIBOWITZ NATHANIEL ET AL) 19 September 2002 (2002-09-19) abstract paragraph '0006! - paragraph '0033! paragraph '0038! - paragraph '0055! -----	1-18
A	WO 01/75652 A (CT SPAN COMM CORP) 11 October 2001 (2001-10-11) abstract page 3, line 15 - page 4, line 31 -----	1-18
A	US 2002/062336 A1 (BJORNER NIKOLAJ S ET AL) 23 May 2002 (2002-05-23) abstract paragraph '0029! - paragraph '0043! paragraph '0047! ----- -/--	1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/15035 A (NAPSTER INC) 21 February 2002 (2002-02-21) abstract page 5, line 5 - page 7, line 6 -----	1-18

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002133621	A1	19-09-2002	AU	1088502 A	22-04-2002
			EP	1410136 A2	21-04-2004
			WO	0231615 A2	18-04-2002
<hr/>					
WO 0175652	A	11-10-2001	AU	5306401 A	15-10-2001
			WO	0175652 A2	11-10-2001
<hr/>					
US 2002062336	A1	23-05-2002	AU	3526302 A	03-06-2002
			EP	1338133 A2	27-08-2003
			JP	2004524602 T	12-08-2004
			WO	0242900 A2	30-05-2002
			AU	3526402 A	03-06-2002
			WO	02058360 A2	25-07-2002
			WO	0242901 A2	30-05-2002
			US	2002062375 A1	23-05-2002
			US	2002107982 A1	08-08-2002
<hr/>					
WO 0215035	A	21-02-2002	AU	8326601 A	25-02-2002
			TW	529269 B	21-04-2003
			WO	0215035 A2	21-02-2002
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